NC/PMC/W-04/2018-19/CLF-C1

Date: 03-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}

Ref.: Material testing/W-04/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

Sri. Sudarshan AE

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	169 min	Shall not be less than 30 min
2	Final setting time	284 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.14 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.07 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.93 N/Sq mm	Shall not be less than 27 N/Sqmm

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EMAIL:newzen576@gmail.com

[illegible]/2018-19/CLF-PCC1 **Date: 03-01-2019**

[illegible] OF COARSE AND FINE AGGREGATES:

[illegible] Testing of Coarse and Fine aggregates to be used for bed concrete.
[Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
[illegible] Material testing/W-04/PMC/18-19,
[illegible] Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
[illegible] of the Agency/Contractor*: Sri. Shadayan, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	100.00	100.00
20mm	97.60	85-100	95 - 100
10mm	43.95	0 - 20	25 - 55
4.75mm	7.20	0 - 5	0 - 10

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.25	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.70	60-95	75-100	85-100	
01.18	69.45	30-70	55-90	75-100	
600.mic	48.30	15-34	35-59	60-79	
300.mic	24.95	5-20	8-30	12-40	
150.mic	6.80	0-10	0-10	0-10	

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NC/PMC/W-04/2018-19/CLF-C2 **Date: 17-01-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**174 min**	Shall not be less than 30 min
2	Final setting time	**266 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.02 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.15 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.37 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/W-04/2018-19/CLF-PCC2 **Date: 17-01-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	100.00	100.00
20mm	97.85	85-100	95 - 100
10mm	44.20	0 - 20	25 - 55
4.75mm	6.65	0 - 5	0 - 10

AE

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.20	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	87.05	60-95	75-100	85-100	
01.18	66.90	30-70	55-90	75-100	
600.mic	52.35	15-34	35-59	60-79	
300.mic	14.15	5-20	8-30	12-40	
150.mic	7.80	0-10	0-10	0-10	

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NC/PMC/W-04/2018-19/CLF-C3 Date: 28-01-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**160min**	Shall not be less than 30 min
2	Final setting time	**276 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.89 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.05 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results	**28.61 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/PMC/W-04/2018-19/CLF-FA1 **Date: 28-01-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.45**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.10**	60-95	75-100	85-100	
01.18	**64.95**	30-70	55-90	75-100	
600. mic	**38.30**	15.34	35-59	60-79	
300.mic	**12.55**	5-20	8-30	12-40	
150.mic	**6.70**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**18.45 %**	-----
2	Silt Content	----	**0.65 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

Page No. 1/1,

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NC/PMC/W-04/2018-19/CLF-CA1 **Date: 28-01-2019**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**96.25**	85-100	90 - 100
10 mm	**52.70**	0 - 20	25 - 55
4.75 mm	**8.10**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**22.95 %**	Not to exceed 25 %
2.	Crushing value	**28.40 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/PMC/W-04/2018-19/CLF-SSM1 **Date: 04-02-2019**

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1349.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.42 %**	Not more than 2.0 %

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NC/PMC/W-04/2018-19/CLF-SSM2 **Date: 08-02-2019**

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1310.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.42 %**	Not more than 2.0 %

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NC/PMC/W-04/2018-19/CLF-SSM3 **Date: 19-02-2019**

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1379.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.40 %**	Not more than 2.0 %

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NC/PMC/W-04/2018-19/CLF-SSM4 **Date: 27-02-2019**

1. TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.
{Project*: Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05.}

Ref.: Material testing/QC/18-19,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Prakash.S, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1304.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.43 %**	Not more than 2.0 %

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NC/PMC/W-04/2018-19/CLF-CB1 **Date: 05-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	05-03-19	07	22500	375	16.67	**16.59**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	365	16.22	

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NC/PMC/W-04/2018-19/CLF-CB2

Date: 15-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}

Ref.: Material testing/W-04/PMC/18-19,

Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-03-19	15-03-19	07	22500	360	16.00	**16.52**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	370	16.44	

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NC/PMC/W-04/2018-19/CLF-CB1a

Date: 26-03-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	26-02-19	26-03-19	28	22500	505	22.44	**22.52**
	002	"	"	"	"	500	22.22	
	003	"	"	"	"	515	22.89	

Page No. 1/1,

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NC/PMC/W-04/2019-20/CLF-CB2a **Date: 05-04-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing Chain Link Fencing to Parks at Judicial Layout in ward No-04.}
Ref.: Material testing/W-04/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Project Division, Yelahanka Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Shadayan, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-03-19	05-04-19	28	22500	495	22.00	**22.37**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

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